

FIG. 1

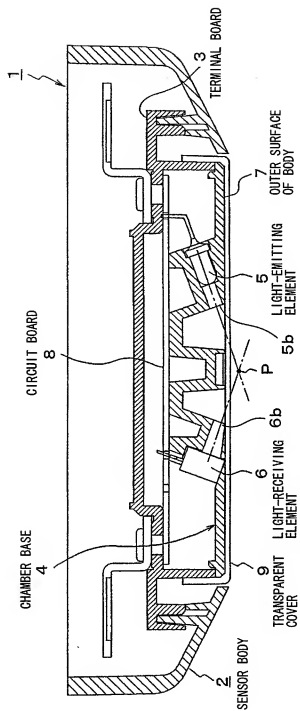
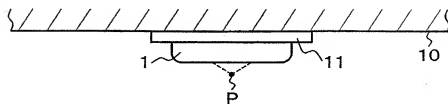


FIG. 2A



5

FIG. 2B

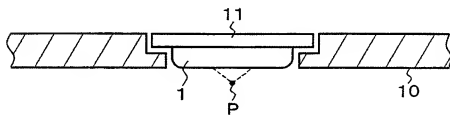


FIG. 3

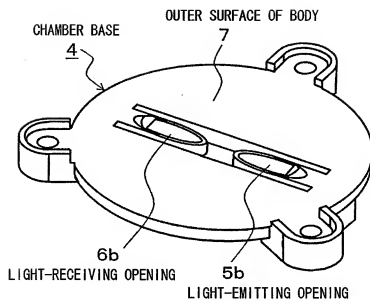


FIG. 4

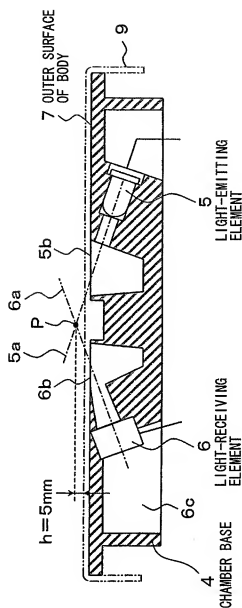


FIG. 5

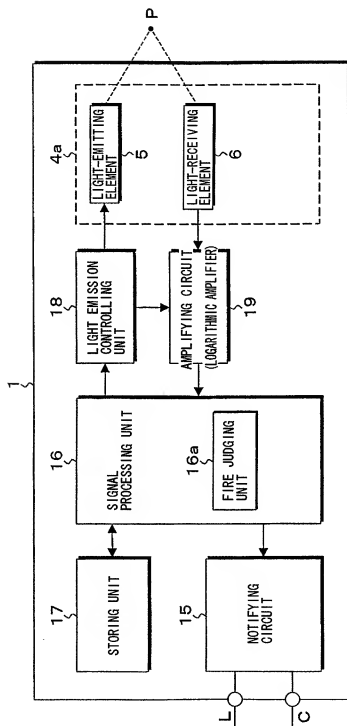


FIG. 6

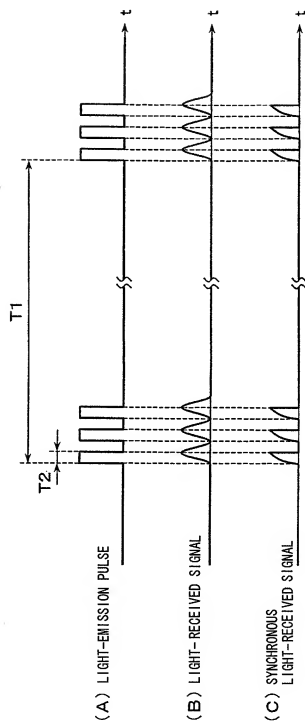


FIG. 7

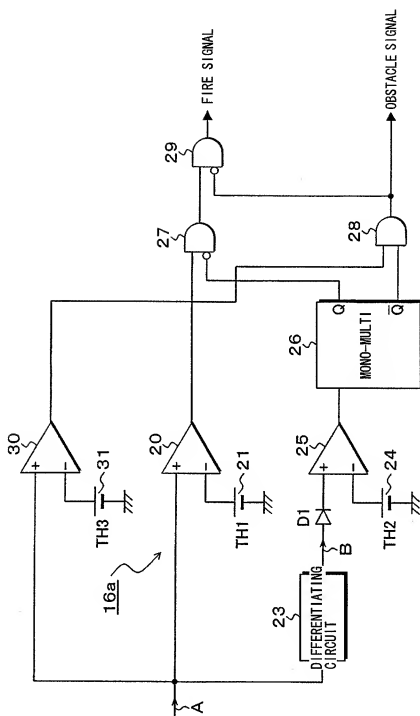


FIG. 8

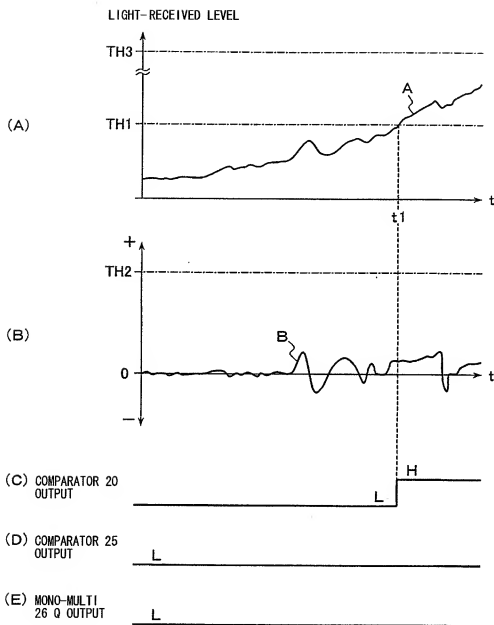


FIG. 9

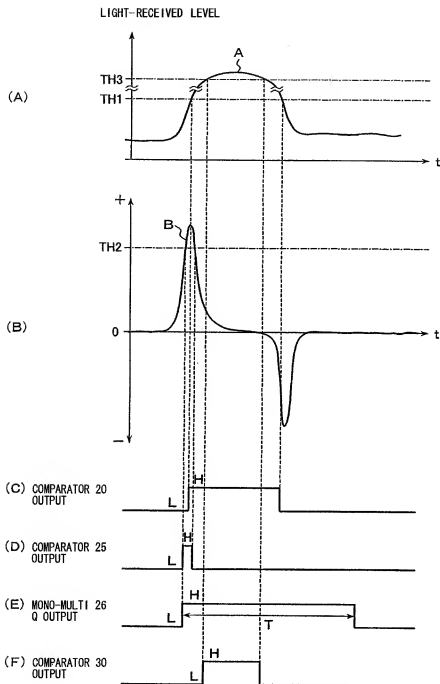


FIG. 10

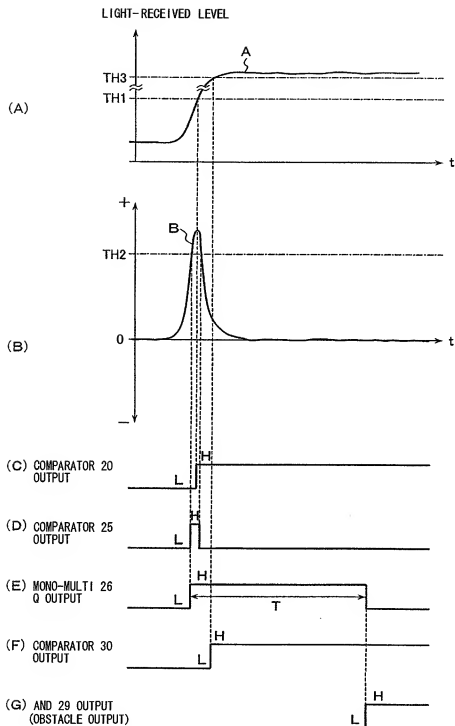


FIG. 11

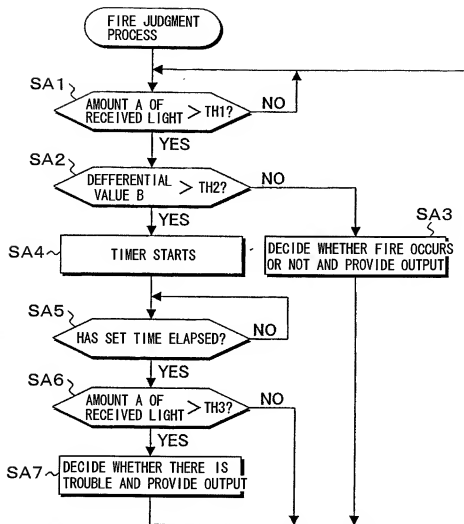


FIG. 12

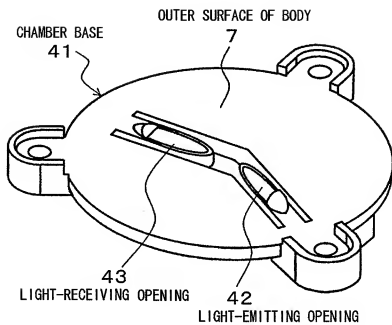
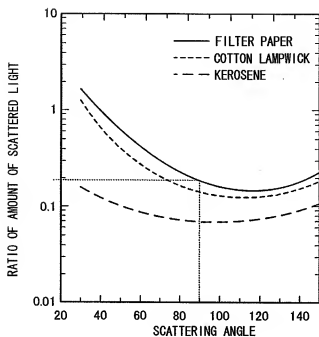


FIG. 14



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FIG. 15

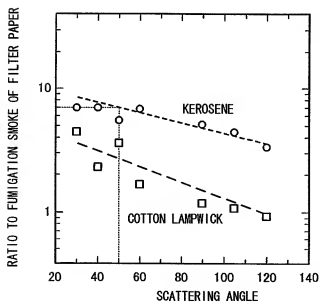


FIG. 16

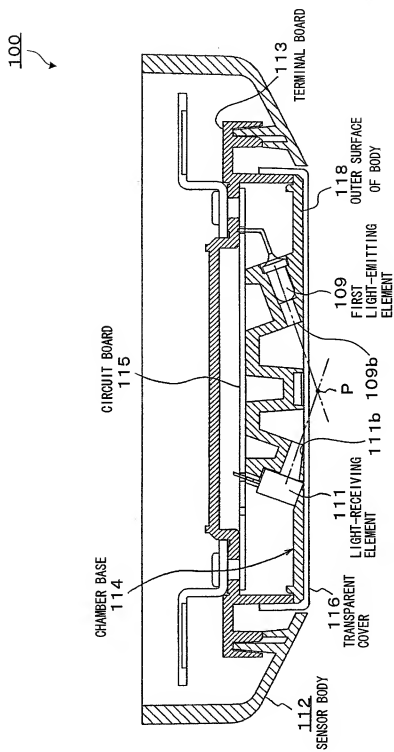


FIG. 17

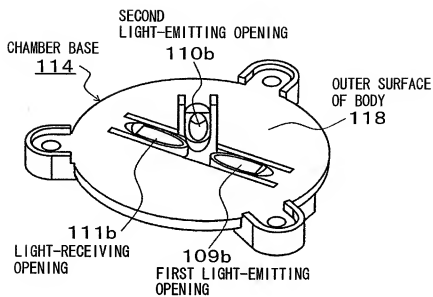


FIG. 18

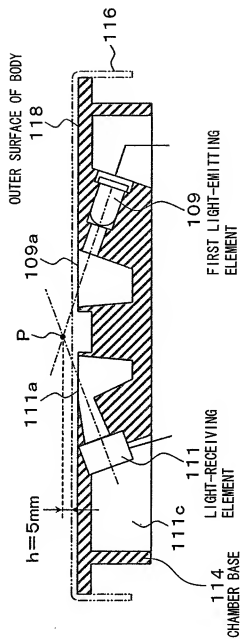


FIG. 19

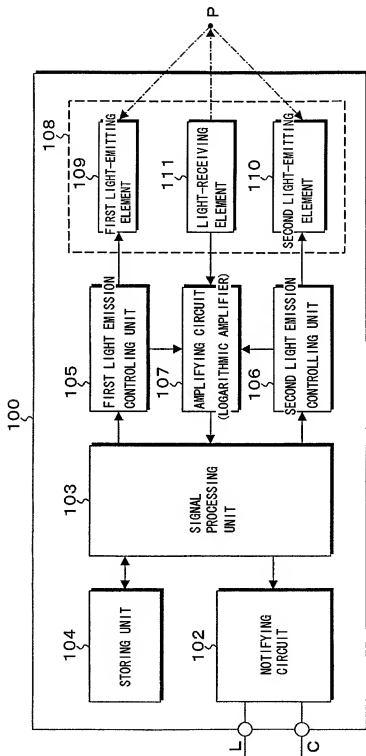
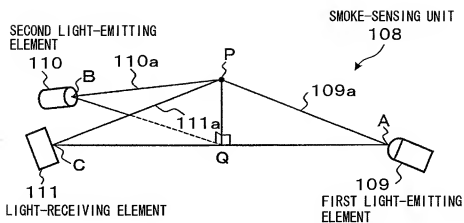


FIG. 20A



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FIG. 20B

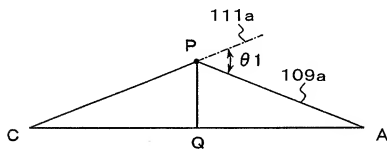


FIG. 20C

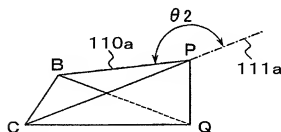


FIG. 21

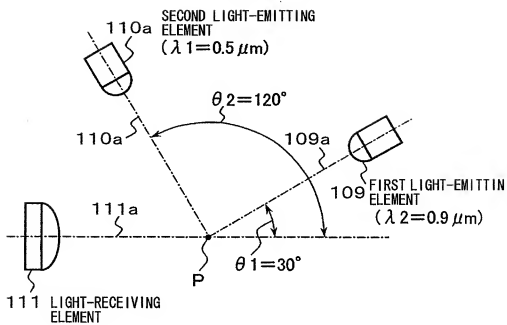


FIG. 22

RELATION BETWEEN LIGHT-RECEIVED
ANGLE AND ANGLE OF FIELD OF VIEW

(LIGHT-RECEIVING ELEMENT ϕ 5mm, CEILING HEIGHT 3m)

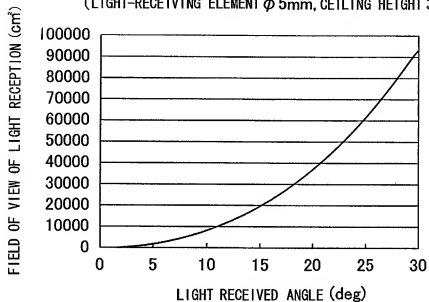


FIG. 23

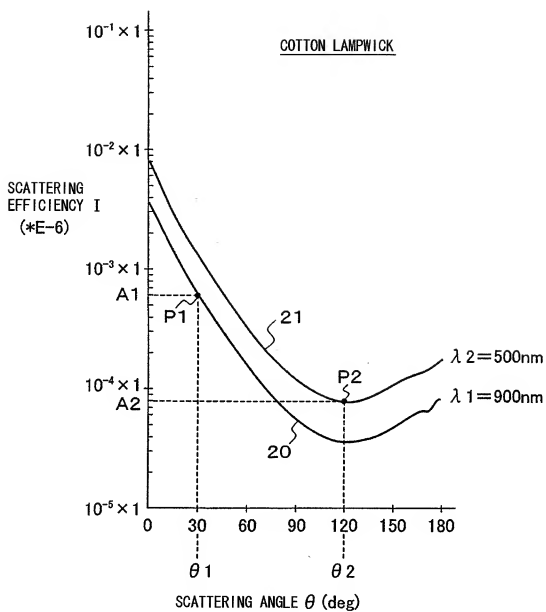


FIG. 24

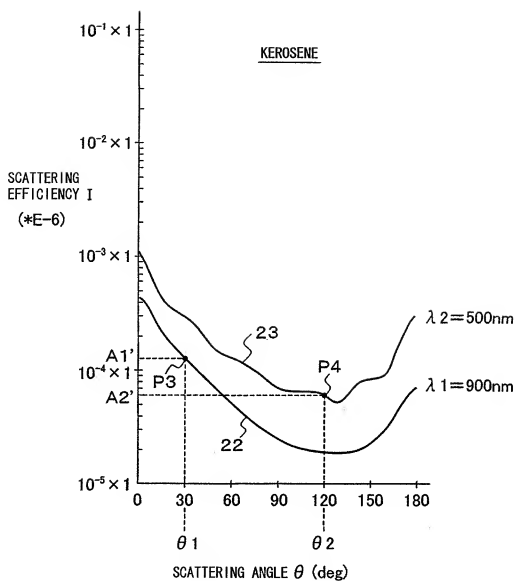


FIG. 25

TYPE OF COMBUSTION MATERIAL	AMOUNT OF LIGHT-RECEIVED SIGNAL A1 FOR FIRST LIGHT-EMITTING ELEMENT	AMOUNT OF LIGHT-RECEIVED SIGNAL A2 FOR SECOND LIGHT-EMITTING ELEMENT	RATIO $R=A1/A2$
FUMIGATION SMOKE (COTTON LAMPWICK)	6.0E-04	7.5E-05	8.0
COMBUSTION SMOKE (KEROSENE)	1.2E-04	5.3E-05	2.3

FIG. 26

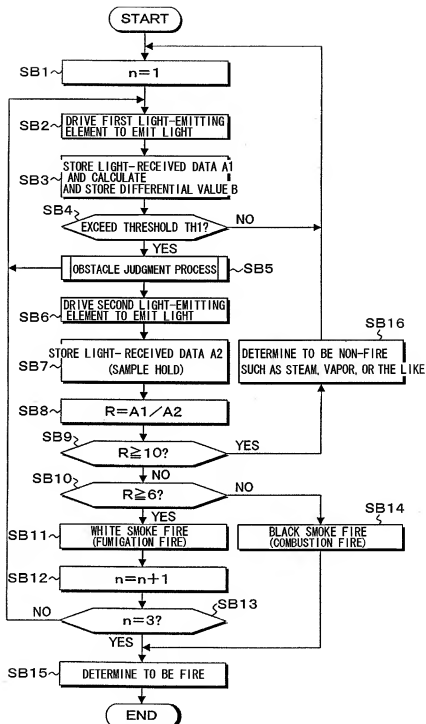


FIG. 27

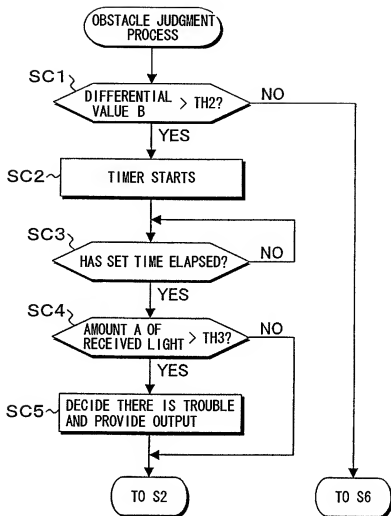


FIG. 28

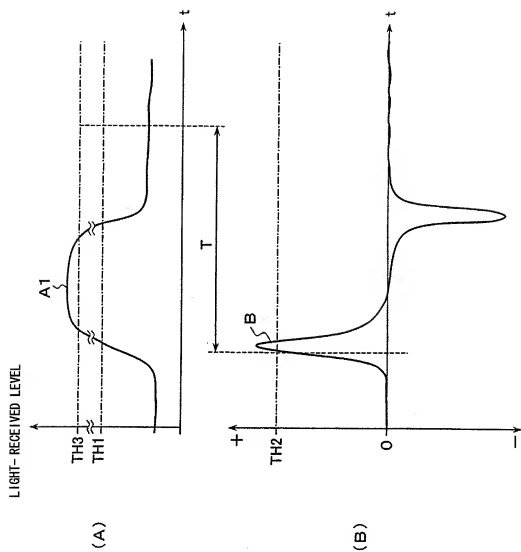


FIG. 29

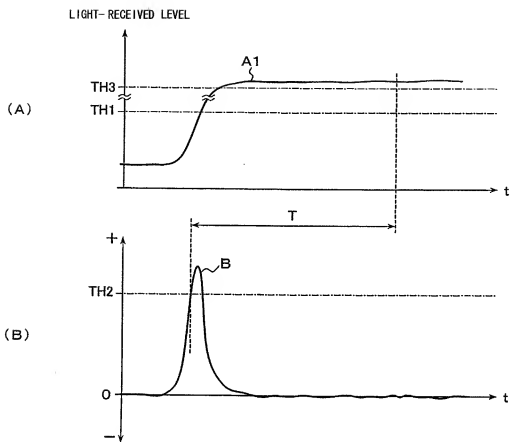


FIG. 31

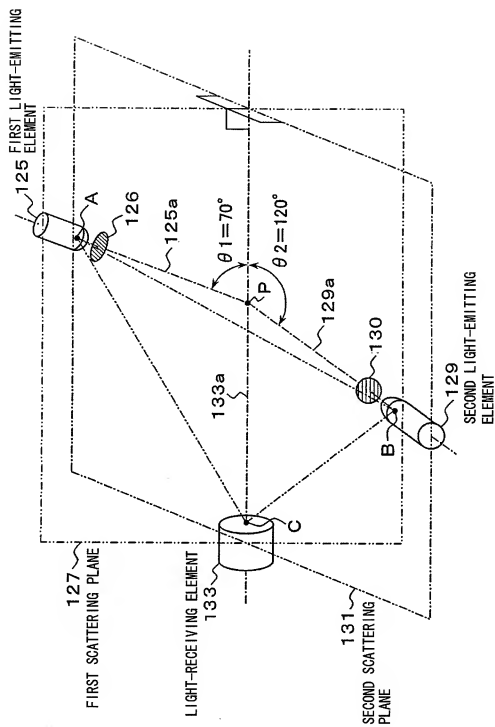
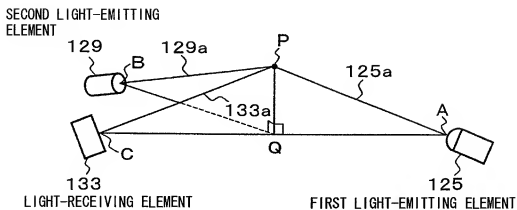
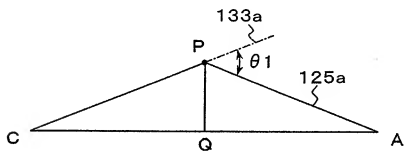


FIG. 32A



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F I G . 3 2 B



10

F I G . 3 2 C

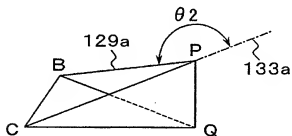


FIG. 33

SCATTERING ANGLE	70°		90°		120°	
	0° (HORIZONTAL)	90° (VERTICAL)	0° (HORIZONTAL)	90° (VERTICAL)	0° (HORIZONTAL)	90° (VERTICAL)
PAPER FILTER	130	200	60	115	45	65
KEROSENE	20	56	18	47	10	40
TOBACCO	80	280	20	190	17	105

FIG. 34

TYPE OF COMBUSTION MATERIALS	AMOUNT A1 OF LIGHT- RECEIVED SIGNAL FOR FIRST LIGHT-EMITTING ELEMENT	AMOUNT A2 OF LIGHT- RECEIVED SIGNAL FOR SECOND LIGHT-EMITTING ELEMENT	RATIO $R=A1/A2$
PAPER FILTER	200	45	4.44
KEROSENE	56	10	5.60
TOBACCO	280	17	16.47

FIG. 35

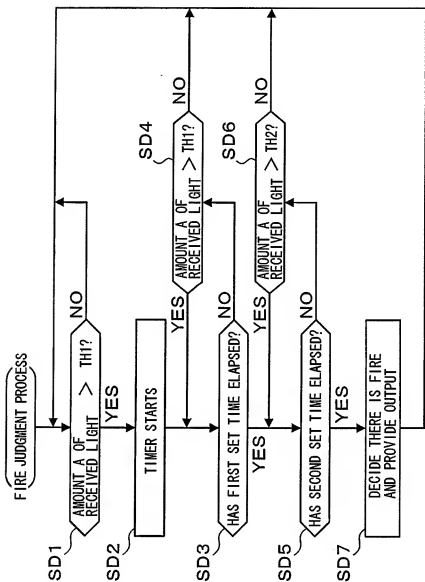
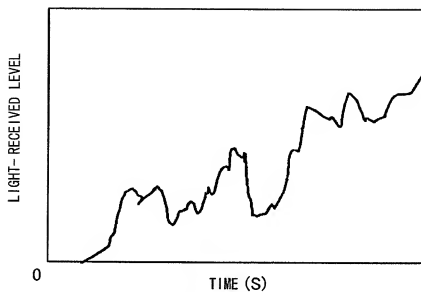


FIG. 36



5

FIG. 37

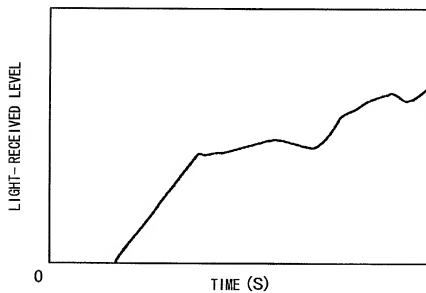
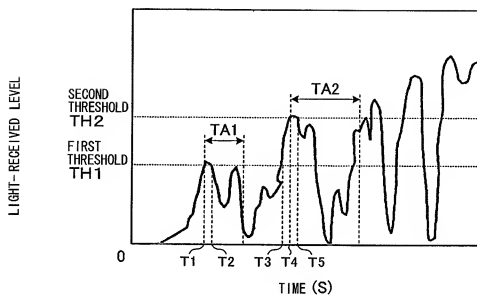


FIG. 38



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FIG. 39

